

Potential to Emit

Phase I and Phase II

Pollutant	Emission Rate per Power Generation Unit stack		Emission Rate per Auxiliary Boiler stack	Emission Rate per Diesel Generator stack	Annual PTE (TPY) Four PGUs Including 130 Startup/Shutdown Cycles per Year per PGU	Annual PTE (TPY) Two Auxiliary Boilers	Annual PTE (TPY) Two Diesel Generators	Annual PTE TPY (Four PGUs Including 130 Startup/Shutdown Cycles per Year per PGU, two Cooling Towers, two Auxiliary Boilers, and two Diesel Generators)
	With Duct Firing Natural Gas ppm (gr/dscf for PM)	With Duct Firing Natural Gas lb/hr (lb/day for PM)	lb/hr (lb/day for PM)	lb/hr (lb/day for PM)				
NO _x	2.5	21.7	1.03	8.6	580.2	2.6	5.1	586
PM ₁₀	5	18.1	0	0	282.1	0.0	0.0	282
CO	2	10.6	1.07	3.85	873.7	2.7	6.3	878
SO ₂	0.28	3.25	0.073	0.27	22.8	0.1	0.1	57
VOCs	2.78	8.4	0.47	0.44	193.2	1.2	0.7	195
PM ₁₀ (front and back half)	0.0037	814.7	7.03	5.28	425.7	0.7	0.3	458

Notes:

- Cooling Tower PM Emissions (TPY each):
4.51
- Hours for Each PGU:
8760
Hours with Duct Firing:
8760
- Hours for Each Auxiliary Boiler:
2500
- Hours for Each Diesel Generator:
500
- Startup/Shutdown Emissions for each pair of PGUs based on 130 cycles per year for each PGU:
NO_x 100
CO 344
VOCs 23
- Number of PGUs with Duct Firing: 4
- Number of Pairs of PGUs: 2
- Number of Auxiliary Boilers: 2
- Number of Cooling Towers: 2
- Number of Diesel Generators: 2
- Emission rates based on 0.5 gr S/100 scf natural gas and 30% sulfate conversion for annual PTE.